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EXPRESS MAIL NO. EV 376 296 697 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Van Buer

Confirmation No.: 8837

Serial No.: 10/040,087

Art Unit: 2131

Filed: January 4, 2002

Examiner: To be determined

For: METHOD AND APPARATUS FOR
HIGH SPEED IMPLEMENTATION OF
DATA ENCRYPTION AND
DECRYPTION UTILIZING, E.G.,
RIJNDAEL OR ITS SUBSET EAS, OR
OTHER ENCRYPTION/DECRYPTION
ALGORITHMS HAVING SIMILAR
KEY EXPANSION DATA FLOW

Attorney Docket No.: 1044-404-01

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Technology Center 2100

**TRANSMITTAL OF REVOCATION AND POWER
OF ATTORNEY OR AUTHORIZATION OF AGENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Revocation and Power of Attorney or Authorization of Agent executed by Gerard N. Casale, Jr., Manager of X-Labs Holdings, LLC, on February 12, 2004. Attached is a copy of an Assignment by the inventors to XLaboratories, LLC executed on October 1, 2001, and a copy of an Assignment from XLaboratories, LLC to X-Labs Holdings, LLC executed on December 17, 2003.

Applicant respectfully requests that the enclosed Revocation and Power of Attorney or Authorization of Agent be made of record in the file of the application.

Respectfully submitted,

Date: February 24, 2004


Richard E. Ballard

JONES DAY

222 East 41st Street

New York, New York 10017-6702

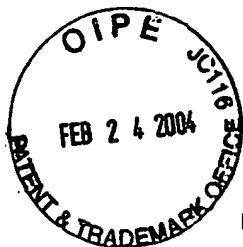
(650) 739-3945

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46,078

(Reg. No.)

Enclosures



FEB-13-2004 10:45AM FROM-JONES DAY

650 739 3900

T-204 P.008/023 F-711

EXPRESS MAIL NO.: EV 376 296 697 US

POWER OF ATTORNEY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Van Buer

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Serial No.: 10/040,087

Group Art Unit: 2131

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Examiner: *To be determined*

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REVOCATION AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

X-Labs Holdings, LLC (assignee) hereby revokes any and all previous powers and appoints:

☒ Practitioners at Customer Number 20583 and Richard E. Ballard, Reg. No. 46,078.

as its/their their attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above mentioned Customer Number, 20583

☒ Firm or Individual Name:

Address: Jones Day
Attn: Richard E. Ballard
222 East 41st Street
New York, New York 10017

Telephone: (650) 739-3945

X-Labs Holdings, LLC is the:

☐ Applicant/Inventor
☒ Assignee of record of the entire interest. See 37 CFR 3.71.
(Statement under 37 CFR 3.73(b) is applicable)

Statement Under 37 C.F.R. 3.73(b)

X-Labs Holdings, LLC states that it is:

☒ the assignee of the entire right, title, and interest; or
☐ an assignee of less than the entire right, title and interest.

- 1 -

MP1-14969v1
Power of Attorney by Assignee - XLabs 1044-404-01
JP006816
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EXPRESS MAIL NO.: EV 376 296 697 US

The extent (by, percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of either:

☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office on at Reel , Frame .

OR

☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Darrel J. Van Buer To: XLaboratories, L.L.C.
The document was recorded in the United States Patent and Trademark Office on 1/4/2002 at Reel 012459, Frame 0797.

2. From: XLaboratories, L.L.C. To: X-Labs Holdings, LLC
The document was recorded in the United States Patent and Trademark Office on at Reel , Frame , or for which a copy thereof is attached.

3. From: To:
The document was recorded in the United States Patent and Trademark Office on at Reel , Frame , or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.
[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

ASSIGNEE: X-Labs Holdings, LLC

Date:

2/12/04

Signature:



Typed Name:

Gerard N. Casale, Jr.

Position/Title:

Manager

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required.

☒ Total of 1 form is submitted.

EXHIBIT 4

PATENT ASSIGNMENT

I/WE, X Laboratories (ASSIGNOR)

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to X-Labs Holdings, LLC (ASSIGNEE), its successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the inventions entitled below:

| Title | Filing Date | USPTO Serial No. |
|---|--------------------|-------------------------|
| Method and Apparatus for Electronically Extracting Documents Potentially Containing Application Specific Multidimensional Information from a Library of Searchable Documents | 12/19/2001 | 10/025,342 |
| Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from Documents Selected from a Set of Documents Electronically Extracted from a Library of Electronically Searchable Documents | 12/19/2001 | 10/026,065 |
| Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from a Library of Searchable Documents and for Providing the Application Specific Information to a User Application | 12/19/2001 | 10/025,349 |
| Method and Apparatus for High Speed Implementation of Data Encryption and Decryption Utilizing, e.g., Rijndael or Its Subset AES, or Other Encryption/Decryption Algorithms Having Similar Key Expansion Data Flow | 1/4/2002 | 10/040,087 |
| Method and Apparatus for High Speed Key Expansion in a Parallel Pipelined Implementation of, e.g., Rijndael or Its Subset AES, or Other Encryption Algorithms with Similar Key Data Flow | 1/4/2002 | 10/038,999 |
| Method and Apparatus for Augmented Reality Hybrid Tracking System with Fiducial-Based Heading Correction | 10/18/2002 | 10/282,397 |
| Method and Apparatus for Iterative Equalization/Decoding MIMO Transmissions Over MIMO Channels Utilizing a Per-Antenna Equalization Architecture | 7/25/2002 | 60/398,528 |
| Method and Apparatus for Iterative Equalization/Coding MIMO Transceiver | 7/25/2002 | 60/398,527 |

Application-Specific Object-Based Segmentation and Recognition System
Having an Improved Background Modeling Module

8/22/2002 60/405,201

Application-Specific Object-Based Segmentation and Recognition System
Having an Improved Background Modeling Module

8/22/2002 60/405,337

Application-Specific Object-Based Segmentation and Recognition System

8/22/2002 60/405,346

and all United States Letters Patent which may be granted therefore, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made;

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE.

Signed on

"ASSIGNOR"

DATED

X Laboratories, LLC

December 17, 2003

By: Its Attorney In Fact


Name: Gerard Casale

Title: Managing Partner, Casale Alliance, LLP

ASSIGNMENT

WHEREAS, I **Darrel J. Van Buer** a citizen, of the United States, whose post office addresses is 11840 Pacific Avenue, Los Angeles, CA 90066, have made an invention together for which we are about to make application for Letters Patent of the United States entitled **"Method and Apparatus for High Speed Implementation of Data Encryption and Decryption Utilizing, e.g., Rijndael or its Subset EAS, or Other Encryption/Decryption Algorithms Having similar Key Expansion Data Flow;"** and

WHEREAS, **XLaboratories, L.L.C.**, a limited liability company organized and existing under the laws of the State of California, and having an office for the transaction of business at 11755 Wilshire Boulevard, Suite 1200, Los Angeles, CA, 90025, is desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to the said application for Letters Patent thereof, and any Letters Patent which may be obtained therefrom;


NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said **Darrel J. Van Buer** for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said **XLaboratories**, and other good and valuable consideration unto us moving from said **XLaboratories**, at and before the execution and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents, do sell, assign, transfer and convey, unto said **XLaboratories**, its successors, assigns and heirs the entire right, title and interest in and to the said invention for which we are about to make application for Letters Patent of the United States entitled **"Method and Apparatus for High Speed Implementation of Data Encryption and Decryption Utilizing, e.g., Rijndael or its Subset EAS, or Other Encryption/Decryption Algorithms Having similar Key Expansion Data Flow,"** executed concurrently herewith, and any and all improvements thereon, and in and to said application and any divisional, continuation or continuation-in-part applications thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND I, the said **Darrel J. Van Buer** do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **XLaboratories**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **XLaboratories**, its successors and assigns;

AND I, the said **Darrel J. Van Buer**, for the considerations aforesaid, do hereby covenant and agree to and with said **XLaboratories**, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel

for said **XLaboratories**, its successors and assigns, may be required or necessary more effectively to secure to and vest in said **XLaboratories**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Subscribed and executed at Malibu, Los Angeles County, California on ^{October 1}~~September~~, 2001


Darrel J. Van Buer